LEXANTM OQ SHEET PORTFOLIO

Virtually unbreakable, high optical quality, LEXAN sheet portfolio of polycarbonate (PC) products, from SABIC, combine crystal clear transparency with lightweight and features outstanding low ripple and distortion, including an extremely low number of optical defects.

EXTREMELY HIGH IMPACT RESISTANCE

Like all LEXAN sheet products, LEXAN MARGARD sheet may offer extremely high impact resistance, minimizing the risk of breakage — even when subjected to violent blows by heavy objects. This impact resistance does not vary significantly over a wide temperature range (–40 °F to +248 °F) or after prolonged outdoor exposure.

SAFE AND EASY TO HANDLE AND INSTALL

LEXAN sheet is very light and can be cut to size on-site using conventional workshop tools, allowing reduced lead times for re-glazing. Lighter glazing reduces overall cab weight and may also offer opportunities to use lighter installation hardware.

ANTI-VANDAL GLAZING

Glazing with LEXAN MARGARD sheet can be an excellent candidate in areas where there may be a risk of vandalism. It minimizes the risk of costly re-glazing and allows frequent cleaning or removal of graffiti without causing damage.

FIGURE 1 IMPACT RESISTANCE

Falling dart impact test 5 pounds (2.3 kg.) steel dart 1” (25.4 mm) diameter dip

Figure 1 shows the impact resistance of LEXAN, Acrylic, and Glass. LEXAN sheet 6mm (1/4”) has a higher impact strength compared to Acrylic and Glass.

FIGURE 2 WEIGHT

The table below provides the weight in Lbs/sq.ft (kg/sq.meter) for LEXAN™ Sheet and Glass at various thicknesses in inch (mm).

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>LEXANTM SHEET Lbs/sq.ft (kg/sq.meter)</th>
<th>GLASS Lbs/sq.ft (kg/sq.meter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.08</td>
<td>0.5 (2.4)</td>
<td>1.02 (5.0)</td>
</tr>
<tr>
<td>0.093</td>
<td>0.58 (2.8)</td>
<td>1.2 (5.9)</td>
</tr>
<tr>
<td>0.118</td>
<td>0.73 (3.6)</td>
<td>1.6 (7.8)</td>
</tr>
<tr>
<td>0.177</td>
<td>5.4 (1.1)</td>
<td>2.4 (11.7)</td>
</tr>
<tr>
<td>0.236</td>
<td>1.46 (7.2)</td>
<td>3.2 (15.6)</td>
</tr>
<tr>
<td>0.375</td>
<td>2.34 (11.4)</td>
<td>4.8 (23.4)</td>
</tr>
</tbody>
</table>

Chemistry That Matters™
HIGH RESISTANCE TO ABRASION
LEXAN MARGARD sheet has a unique, hard surface coating which may provide a high level of protection against unsightly scratching, so it’s ideal for use in applications where frequent contact is likely.

HIGH RESISTANCE TO THE EFFECTS OF WEATHERING
The surface coating of LEXAN MARGARD sheet enhances protection against performance losses and yellowing caused by exposure to UV radiation in sunlight.

HIGH RESISTANCE TO CHEMICALS
LEXAN MARGARD sheet has high resistance to many chemicals such as cleaning fluids, paints and adhesives. Its unique surface coating, therefore, enables easy restoration to ‘good as new’ condition.

THERMAL INSULATION BENEFITS
In both summer and winter, LEXAN MARGARD sheet’s low thermal conductivity results in improved comfort and operational efficiency in a closed cab environment.

FIGURE 3 TABER ABRASION
ASTM D1044 test at 500 cycles

FIGURE 4 THE UNIQUE PROPRIETARY TECHNOLOGY APPLIED TO LEXAN SHEET BLOCKS THE UV RAYS OF SUNLIGHT

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